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Figure

| | Total protein mg | Enzyme activity nkat | ≻ ¥ield ¥ | Specific activity nkat mg -1 | Purification -fold |
|--|---------------------|-------------------------|-----------------|------------------------------|-----------------------|
| Crude extract | 1716 | 51 | | 0.03 | |
| Ammonium sulphate precipitation (30-80%) | 068 | 155 | 300 | 0.17 | ω |
| DEAE column | 10.7 | 50 | 86 | 4.69 | 158 |
| MonoQ column 60% | 8.1 | 18.6 | 36 | 10.23 | 344 |
| MonoQ column 30% | 96.0 | 6.6 | 12 | 6:87 | 231 |
| Phenylsucrose | 0.07 | 1.2 | 2.4 | 18.03 | 009 |

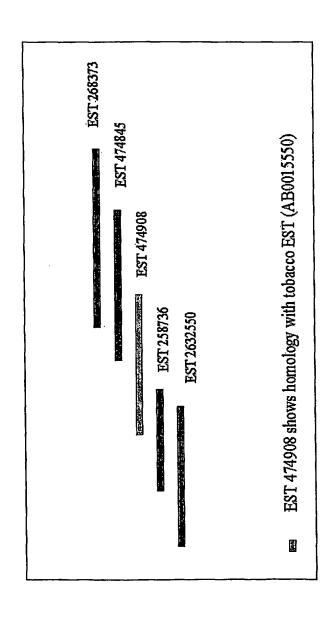
nkat = 1nmol caffeoyl-CoA

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lure 2



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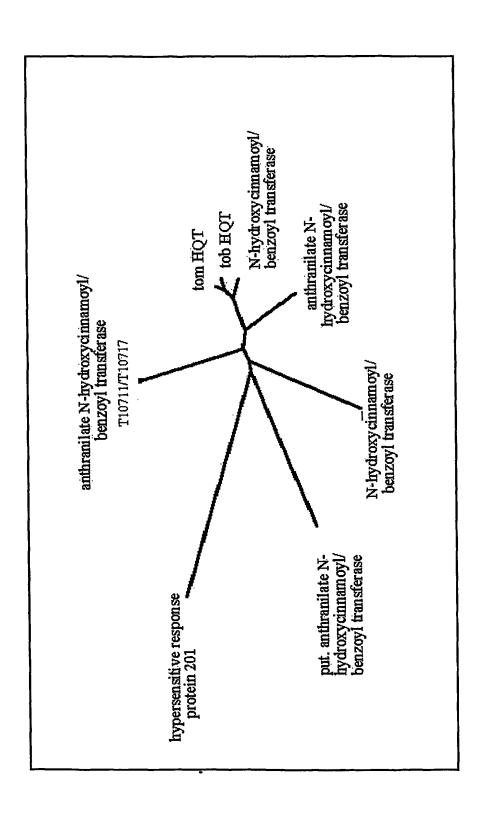
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Figure 3

| | 1 | | | | | 60 |
|------------------|---|---|--|--------------------------|---|--|
| tobHQT tomHQT | | ikestlukds ikestlukds | | | | |
| cons | | 1KL-KPS | -PTPL | SNLD-I-G | FYK- | S- |
| | 61 | | | | | 120 |
| | | VSFYPMAGRL VSFYPMAGRL | | | | |
| • | kLsL | V~-YP-AGRL | -RGKI | -cn-egev | er-sdd | F-DL |
| | 121 | | | | | 180 |
| | ektienale Ektienale | GDISTFPLII GDISTFPLKI | FOVTRFRCGG FOTTRFRCGG | valgesyffi Valgesyffi | LEDGLES IHF LEDGLES IHF | intwediarc intwediarc |
| | L-P-VS | T-PL | -QVT-EKEGG | CV-H- | DG-SF | IN-WARG |
| | 181 | | | | | 240 |
| | LSVAIPPFID LSVAVPPFID | RTLLBARDPP RTLLBARDPP | T <mark>é</mark> sfehveyh T <mark>y</mark> sfehveyh | pppglissek pppgl-Mssk | SLESTSPKPS WHESS | TTTMLKFSSD TTTMLKFSSE |
| | pp | R-LLR-PP | Н-ЕҮ- | p | | K-S |
| | 241 | | | | | 300 |
| | | HDGSTYELLA Vecstyella | | | | |
| | -LLK-K | E | nwrcka | L | LaRSR | L-PPLP-GY- |
| | 301 | | | · | | 360 |
| | GNVVFT <mark>C</mark> TPW GNVVFTMTPI | aksselläer aksöelu <mark>s</mark> er | LTNS <mark>V</mark> KRIH LTNS <mark>V</mark> KRIH | rlerhddnyl Blerhddnyl | rsaldyleli rsaldylele | PDLS <mark>ä</mark> LIRGP PDLS <mark>ä</mark> LIRGP |
| | GN-V | RLP | Lh | M-KYL | RSDE | LG- |
| | 361 | | | | | 420 |
| | | nswirl pvhd Mewirl pvhr | SDFGWGRPIH SDFGWGRPTH | MGPACILYRG MGPACILYRG | TVYI <mark>I</mark> PSPNS TTYTÄDSDNS | EDBNLELAVO |
| | • | -SW-R-P | ·[| | | • |
| | 421 | 436 | | | | |
| | графияцтв грасния пра | (Section 18) | | | | |
| | LBE | | | | | |

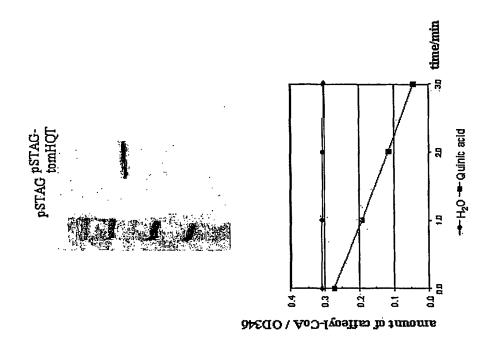
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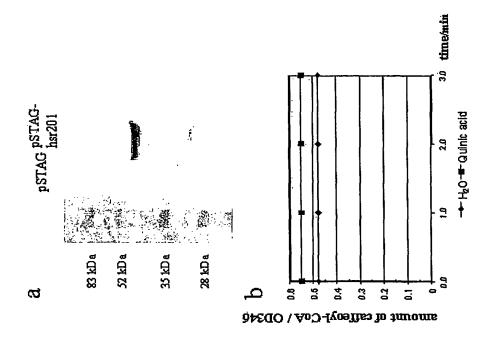




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Figure 5





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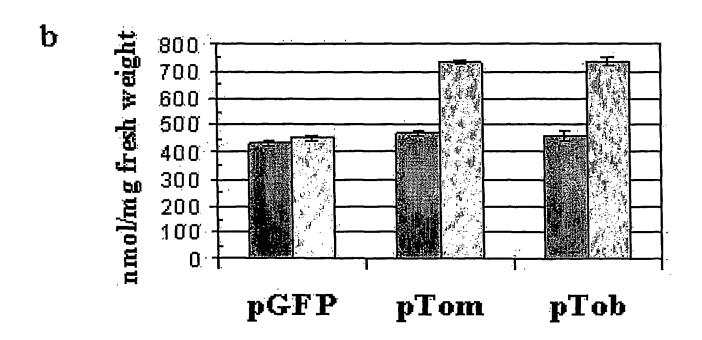
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Figure 6

a

pGFP pGFP pBIN19 p19



圖pBIN19 回p19

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Figure 7a

ATG GGAAGTGAAA AAATGATGAA AATTAATATC AAAGAATCAA CACTAGTGAA ACCATCAAAA CCAACACCAA CAAAGAGAAT TTGGAGTTCT AATTTGGATT TAATTGTTGG AAGAATTCAT CTTTTGACTG TTTATTTTTA TAAACCAAAT GGATCTTCAA ATTTTTTTGA TAATAAAGTT ATTAAAGAAG CATTAAGTAA TGTTTTAGTT TCATTTTATC CAATGGCTGG AAGATTAGGT AGGGATGAAC AAGGTAGAAT TGAAGTTAAT TGTAATGGTG AAGGTGTTTT GTTTGTTGAG GCTGAAAGTG ATTCATGTGT TGATGATTTT GGTGATTTTA CACCATCTT GGAACTTAGA AAACTCATTC CAAGTGTTGA AACCTCTGGA GATATCTCAA CTTTCCCACT AGTTATATTT CAGATTACTC GTTTCAAGTG TGGCGGAGTC GCTCTTGGTG GTGGAGTATT CCACACGTTA TCCGATGGTC TCTCATCCAT CCACTTCATC AACACGTGGT CGGACATCGC CCGTGGCCTC TCCGTCGCAG TCCCGCCGTT CATCGATCGG ACGCTCCTCC GTGCAAgGGA CCCACCGACA TATTCTTTCG AGCACGTTGA GTACCATCCT CCACCTACCC TAAACTCATC GAAAAATGGC GAGTCCAGTA CCACGACCAT GTTGAAATTC TCGAGTGAAC AACTCGGGCT TCTTAAGTCC AAGTCCAAAA ATGAGGGTAG CACCTATGAA ATCCTCGCAG CCCATATTTG GCGATGCACG TGCAAGGCAC GTGGATTGCC AGAGGATCAA TTGACCAAAT TACACGTGGC CACCGACGGA AGGTCAAGGC TTTGCCCTCC CTTGCCACCG GGTTACCTAG GAAACGTCGT GTTCACGGCA ACCCCAATAG CTAAATCATG CGAACTTCAA TCAGAGCCGT TGACAAATTC CGTCAAGAGA ATTCACAACG AGTTGATCAA AATGGACGAC AATTACCTAA GATCAGCACT GGATTACCTC GAATTACAAC CTGATTTATC AACCCTAATT CGGGGCCCGG CTTACTTTGC TAGCCCTAAC CTCAATATTA ATAGTTGGAC TAGGTTGCCT GTCCATGAGT GTGATTTTGG ATGGGGTAGG CCaATTCATA TGGGACCAGC TTGCATTTA TATGAAGGGA CaATTTATAT TATACCAAGT CCAAATTCTA AAGATAGGAA CTTGCGTTTG GCTGTTTGTC TAGATGCTGG TCACATGTCA CTATTTGAAA AATATTTATA TGAATTATGA 8/9

Figure 7b

ATGGGAAG TGAAAAAATG ATGAAAATTA ATATCAAGGA ATCAACATTA GTAAAACCAT CAAAACCAAC ACCAACAAAA AGACTTTGGA GTTCTAACTT AGATTTAATA GTGGGAAGAA TTCATCTTTT AACAGTATAT TTCTATAAAC CAAATGGATC TTCAAATTTC TTTGATTCAA AAATAATGAA AGAAGCATTA AGTAATGTTC TTGTTTCATT TTACCCAATG GCTGGAAGAT TAGCTAGAGA TGAACAAGGA AGAATTGAGA TAAATTGTAA TGGAGAAGGA GTTTTATTTG TTGAAGCTGA AAGTGATGCT TTTGTTGATG ATTTTGGTGA TTTTACTCCA AGTTTGGAAC TTAGGAAACT TATTCCTACT GTTGACACTT CTGGTGATAT TTCTACTTTC CCCCTCATCA TCTTTCAGGT TACTCGTTTC AAATGTGGTG GAGTTTCACT TGGTGGAGGA GTATTCCACA CTTTATCAGA TGGTCTCTCA TCAATTCACT TCATCAACAC ATGGTCCGAT ATAGCCCGAG GCCTCTCCGT CGCCATCCG CCGTTCATCG ACCGGACCCT CCTCCGTGCA CGGGACCCAC CAACATCGTC TTTCGAGCAC GTCGAGTATC ATCCTCCTCC ATCTCTAATT TCATCATCAA AAAGCTTAGA ATCCACTAGC CCAAAGCCTA GTACCACAAC CATGTTAAAA TTCTCTAGTG ACCAACTTGG GCTTCTAAAG TCCAAGTCCA AACATGATGG TAGCACTTAC GAAATCCTCG CGGCCCATAT TTGGCGTTGC ACGTGCAAGG CACGTGCACT GTCCGACGAT CAATTGACCA AATTACATGT GGCCACTGAT GGTAGGTCTA GGCTTTGCCC TCCTTTGCCA CCAGGTTACT TAGGAAATGT TGTGTTCACA GGCACACCTA TGGCAAAATC AAGTGAACTT TTACAAGAAC CATTGACAAA TTCAGCCAAG AGAATTCATA GTGCATTATC AAAAATGGAT GaCAATTACC TAAGATCAGC TCTCGATTAC CTCGAATTAC TGCCCGATTT ATCGGCTTTA ATCCGTGGAC CGACGTACTT TGCTAGCCCT AATCTTAATA TTAATAGTTG GACTAGATTG CCTGTTCATG ATTCAGATTT TGGATGGGGA AGGCCAATTC ATATGGGACC AGCTTGCATT TTATATGAAG GGACAGTTTA TATATTGCCA AGTCCAAATA GTAAAGATAG GAACTTGCGT TTGGCTGTTT GTTTAGATGC TGATCACATG CCACTATTTG AGAAGLATTT

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